

### Abstract

A method of flow forming sintered metal parts. The first step is forming a round disk by conventional powder metal process. The disk can be a donut shape part with or without a flange on one side of its outer diameter. The disk can then be copper impregnated or used as is, depending on the requirements. The disk is placed in a spinner held in proper tooling and grooves are spun in its outer diameter. The spinning can be done with a finishing roller or by a pre-finishing roller, followed by a finishing roller. This process not only creates a part with great accuracy, it also densifies and eliminates the powder metal porosities on the surface layer by the pressures inserted in spinning.